Section 13

Supplement to Spare Parts Lists.

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SPARE PARTS LIST

Supplement

Sheet 1

① The stock number given in the parts list applies only to a diaphragm system having 5 segments. In the 10-segment system, the undermentioned parts are of different design, the respective stock numbers being listed in the table below.

Stock Number		Description	Qty	Illustration	
				Plate	No.
	1110 10 000 105 82	Diaphragm segment	10	CN–1110–000/8	105
	1110 10 000 106 82	Diaphragm cover	1	CN–1110–000/8	106
	1110 30 000 107 81	Diaphragm ring screw	2	–	–
②	1110 10 000 116 80	Blade cover	1	CN–1110–000/8	116
	1110 30 000 120 81	Diaphragm ring guide screw	1	CN–1110–000/8	120
		Diaphragm ring	1	CN–1110–000/8	108

The stock number of the blade ring is independent of the number of the special-type shutter.

For Special-Type Shutter	Diaphragm Ring No.
CS–1110–126	1110 50 126 108 81
CS–1110–129	1110 50 129 108 81
CS–1110–130	1110 50 130 108 81
CS–1110–230	1110 50 230 108 80
CS–1110–231	1110 50 231 108 80
CS–1112–341	1112 50 341 108 81
CS–1110–337	1110 50 337 108 81
CS–1110–338	1110 50 338 108 81
CS–1110–340	1110 50 340 108 81

For Special-Type Shutter	Diaphragm Ring No.
CS–1110–342	1110 50 340 108 81
CS–1110–343	1110 50 338 108 81
CS–1110–439	1110 50 439 108 80
CS–1110–440	1110 50 440 108 80
CS–1110–441	1110 50 441 108 80
CS–1110–543	1110 50 543 108 81
CS–1110–544	1110 50 544 108 81
CS–1110–548	1110 50 548 108 81

② For special shutter CS–1110–543 with 10 diaphragm segments, use blade cover 1110 10 005 116 80.

③ When tensioning rings are ordered, the rings will be furnished with the spring mounted in position.

④ See repair instructions for differences in design and correct sequence of inserting blades.

⑤ The following three different diaphragm rings are available for special-type shutter CS 1110–230:

Diaphragm Ring Number	Number of Diaphragm Segments in Diaphragm System	Angle between Arm of Diaphragm Ring and Driving Slot	Remarks
1110 50 230 108 80	10	—	see Supplement ①
1110 50 230 108 81	5	87° 50'	
1110 50 230 108 82	5	83°	Listed in Spare Parts List

a) for Rolleiflex 3.5, serial numbers 1282000–1298999 and 1401000–1427999

b) for Rolleiflex 3.5, serial numbers 1740000–1787999 and Rolleiflex 3.5 E2, serial numbers 1870000–1871999 and 2480000–2481999.

⑥ For shutters with 90° speed selector ring knob use
f-stop indicator 1110 10 338 114 80
with 1 screw 1110 30 130 113 80

⑦ For shutters in which the setting ring is knurled at 60°, the stock numbers given in the parts list are applicable.
Where the setting ring is knurled at 90°, use setting rings and cover plates as per following table.

For Special-Type Shutter	Exposure Control Ring No.	Cover Plate No.
CS–1110–337	1110 30 340 539 82	1110 10 337 540 82
CS–1110–338	1110 30 338 539 83	1110 30 338 540 83
CS–1110–340	1110 30 340 539 82	1110 30 337 540 82
CS–1110–342	1110 30 340 539 82	1110 30 342 540 81
CS–1110–343	1110 30 338 539 83	1110 30 343 540 81

The setting rings listed in the above table have an 18° chamfer; the cover plate extends into the setting ring.
Setting rings with a 7° chamfer and matching cover plates will not be supplied. Where it is necessary to exchange one of the two parts, the matching part will also have to be exchanged.

⑧

When ordering	be sure also to order	
1110 20 000 421 81	1110 40 000 670 83	Bush for shutter speed and "V" detent lever
1110 20 011 421 80		
1210 20 000 421 80		
1110 40 000 627 81	1110 40 000 628 83	Anchor shaft
	1207 40 000 630 82	Thrust washer
1110 20 000 664 81	1110 40 000 699 84	Pivot for M-detent lock
1210 20 000 664 81	1210 40 000 699 80	
1110 40 000 696 91	1110 40 000 695 84	M-detent washer
1110 40 030 696 81		
1210 40 000 696 80		

See Item 9 of Repair Instructions

⑨ For shutters having 10 diaphragm segments, use 1110 10 544 114 81 with screw 1110 30 130 113 81.

⑩ Setting ring spring forms a unit with shutter speed lever spring. Instead of 1110 30 000 151 83 and 1110 30 000 673 82, use only 1110 30000 673 83.
See Plate 1110–030/1.

⑪ The parts listed in the parts list have been discontinued; they had been intended for shutters with f-stops 2–16.
Where necessary, the following matching parts should be exchanged:
1110 50 140 108 81, 1110 10 010 163 82, 1110 10 140 590 81.
In shutters already having f-stops 2–22, the foregoing parts may be exchanged individually.

⑫ For shutters having an MX setting ring lock, the following parts are required:
1110 10 030 174 80 and 1110 10 030 730 83. (Spring: 1110 40 030 749 80)

⑬ For the stop use screw 1110 30 000 260 81. (Screw has been given a greater length and must under no circumstances be used to attach the mounting tube.)

⑭ Instead of 1110 30 000 151 83, now use 1110 30 011 151 83.

⑮ Instead of 1110 30 030 673 81, now use 1110 30 000 673 83.

⑯ For the rear threaded union, the shutter mount and sleeve, the stock numbers given in the parts list are applicable.
Where screwing is performed from the cover plate side, use the following parts:
1110 10 020 745 82 (for special model 1110–545, use 1110 10 545 745 82)
1110 10 020 746 84 and 4 screws 1110 30 020 055 80.

SPARE PARTS LIST

Supplement

Sheet 2

⑰ For special-type shutter CS–1112–141 without tensioning ring, use release 1112 10 141 508 80 instead of 1112 10 134 508 80;
instead of tensioning pinion 1112 10 135 517 80, use tensioning wheel 1112 10 141 517 80.

⑱ The diaphragm closing spring has been modified; it now has one outwardly and one inwardly projecting anchoring eye each.
Stock No.: 1110 30 011 170 82.

The coils of the blade opening ring spring have been modified.
Stock No.: 1110 30 011 264 83.

Where the last-mentioned spring has to be replaced, the diaphragm closing spring must be of the type described above; otherwise the latter will also have to be replaced.

⑲ Two different styles of tensioning ring springs are available for both size 0 and 00 shutters. The differences between these springs are indicated in the table below.

Shutter Size	* Distance	Stock No.
00	9.0	1110 40 000 521 81
	8.3	1110 40 000 521 82
0	10.3	1210 40 000 521 80
	8.3	1210 40 000 521 81

* This can be measured on the tensioning ring and is the distance between the spring anchoring pin and the nearest gap between tensioning teeth.

⑳ Where either the bayonet ring 001 or the rangefinder control cam 005 has to be renewed, it is necessary to replace the entire assembly 001 (bayonet ring) with a rangefinder having a matching cam apex. Therefore, the rangefinder control cam is not supplied separately.

㉑ The mount 008 is available as a complete sub-assembly only, i. e., including the helical focusing nut and the built-in diaphragm. Screws threads front and rear in mount machined to match lens seating.

㉒ When ordering and assembling spare parts, please consult repair instructions applicable to the shutter type concerned.

㉓ The locking lever mounted on the bridge must be adjusted while in position in the shutter (see repair instructions).

㉔ Use blade opening ring 1210 10 011 252 81 if in the base plate the stop for the blade ring pin in the closed position is bare metal (no surface finish).

㉕ Use countersunk screws 1110 30 806 048 80 if bayonet ring is found to be so attached to mount body.

Only in the case of style B quick-change lens mounts as shown in data sheet 2, where cheese head screws are used to attach the bayonet ring to the mount body, will it be necessary to use additionally a tapered pin 1110 30 807 054 80. Refer to repair instructions if the bayonet ring and mount body have to be replaced.

㉖ To check the tensioning and release functions of the special-type shutter CS–1210–670, gauge LZ 52 1210 702 000 may be used (see page 9 of repair instructions under „tensioning ring 528"). To do this, it is necessary to substitute the adapter ring 080 for the bayonet retaining ring supplied with the gauge.

㉗ When replacing exposure control ring 539 and flanged intermediate ring 815, the cover plate 540 or the outer housing 808 should also be replaced to ensure requisite axial alignment. Refer to repair instructions 1110–025, 1110–026 for alignment procedure.

㉘ For special shutter types CS–1110–238 and CS–1110–239 as well as CS–1110–683 and CS–1110–684, there are 2 types of cover plate fastening:

a) with threaded ring at the front end of mounting tube. The following parts are to be used:
No. 1110 10 025 540 80 cover plate for CS–1110–683 and CS 1110–684

No. 1110 10 238 540 82 cover plate for CS–1110–238 and CS–1110–239

No. 1110 30 000 547 82 threaded ring
No. 1110 30 000 538 82 retaining screw for threaded ring

b) with 4 cheese head screws, metric screw thread 1. 4. In this case use:
No. 1110 10 025 540 81 cover plate for CS–1110–683 and CS–1110–684

No. 1110 10 238 540 83 cover plate for CS–1110–238 and CS–1110–239

No. 1210 30 702 004 80 screw
(threaded ring and retaining screw not required).

㉙ When replacing opening disc 801, the directions for adjustment given in repair instructions 1110–035 should be observed.

㉚ When ordering M-cam check lever 696, the washer 1110 40 035 695 80 (check lever base) as well as the M-detent pin 1110 40 035 630 80 (bearing for M-cam check lever) should also be ordered.

㉛ When ordering any components forming part of the bayonet retaining ring assembly, please note that an axial play of 0.03–0.08 mm should exist between the exposure control ring 539 and bayonet retaining ring 730. Adjustment by means of the 3 screws 822 in the bayonet retaining ring. See repair instructions 1110–035, 1110–034.

㉜ On replacing either the exposure control ring 539 or flanged intermediate ring 815, axial play of 0.03–0.08 mm should be ensured. For adjustment see repair instructions 1110–024.

㉝ In the Compur rapid 00-XV shutter without tensioning ring, the setting ring spring 151 is only necessary if a V-coupling with circular anchoring hole of 1.3 mm diam. for the setting ring pin (tensioning pin for selftimer) is provided in the selftimer 400. With V-coupling having a 1.3 x 1.0 mm hole at 90° to the longitudinal axis of the lever, the setting ring spring is unnecessary.—Selftimers having a V-coupling with a 1.3 x 3.8 mm slot coaxial with the lever can be used only for Synchro-Compur 00-MXV shutters.

SPARE PARTS LIST

Supplement

㉞ When ordering spare parts for **COMPUR QUICK-CHANGE MOUNTS** in "Synchro-Compur 00-MXV, Wide and Wide-Reflex with Light Value Follow-up System", the following should be noted:

Model and **Application** of Quick-Change Mount – see COMPUR DATA SHEET	Sheet 5
Type number of Quick-Change Mount – see TABLE OF LENSES AND QUICK-CHANGE MOUNTS	CN–1111–850
Please also bear in mind the relevant SPARE PARTS LISTS	from Type No. CN–1111–851
with cross reference to ILLUSTRATION PLATES	CN–1111–850*) and CN–1111–800

For **Combination mounts** (e. g., A/1-K) — with rangefinder cam, with preset spring diaphragm

all parts in the parts lists apply.

For **Reflex camera mounts** — without rangefinder cam, with preset spring diaphragm

the following parts are not needed:
1111 40 851 003 80 retaining spring
1111 40 806 005 81 rangefinder control cam
1111 40 851 084 81 screws for retaining spring

For **rangefinder camera mounts** — with rangefinder cam, without preset spring diaphragm

the following part is not needed:
1111 30 851 083 81 preset diaphragm ring

For **standard mounts** — without rangefinder cam, without preset spring diaphragm

the parts not needed are the same as in the case of the reflex and rangefinder cameras.

㉟ For models A/1, A/2 und B/1 Quick-Change Mounts without preset spring diaphragm, diaphragm ring spring 1111 30 806 015 80 must be used instead of 1111 30 815 015 81, and diaphragm intermediate ring 1111 10 870 037 80 instead of 1111 10 051 037 81.

㊱ When ordering bayonet rings the following details should invariably be given:

Lens type, model of Quick-Change Mount (see table of lenses and Quick-Change Mounts 1111–850) and **camera manufacturer.**

In Quick-Change Mounts with rangefinder cams, when replacing bayonet ring 001 or rangefinder control ring 005, the entire bayonet ring assembly with matching cam apex height of rangefinder control cam should be ordered. Consequently, for these quick-change mounts the rangefinder control ring is not listed as an individual part. To effect the necessary adjustment of the rangefinder stop, see repair instructions for COMPUR QUICK-CHANGE MOUNTS, page 2, item 14.

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*) In the Parts Lists, issue A/April 1960, the reference numbers CN–1111–851 and CN–1111–863 were still used for 1111–850.

㊲ The mount, part 008, is supplied only as a complete sub-assembly under the number 1111 50 851 008 84. It consists of: rear mount 008, front mount 016, helical focusing nut 018, diaphragm cover 009, diaphragm blade 010, diaphragm cover blade 012 and diaphragm ring 013.

Mount threads, front and rear, match the lens seating.

㊳ Parts for range setting ring without milled edge and with lever.

㊴ Parts for range setting ring with milled edge and without lever.

㊵ Parts for range setting ring with milled edge and lever.

㊶ The various retaining plates for the range setting ring should be noted.

Three types are manufactured:
a) with one screw-on fitting = 1111 30 807 030 81
b) with two screw-on fittings, with 4.8 mm slot spacing = 1111 30 851 030 80
c) with two-screw-on fittings, with 30.8 mm slot spacing = 1111 30 851 089 80
d) with plastic supporting ring 1111 30 851 089 82 which is mounted with 4 holders 1111 30 851 030 81
Types b) and c) have been discontinued. They may be replaced by the parts listed under d).

㊷ Rocker and bearing stud are only supplied ready mounted in sub-assembly intermediate diaphragm ring 037.

㊸ When ordering mount body 020, bayonet ring 001 should be simultaneously ordered and replaced if 2 threaded holes of 1.4 metric thread are not provided at the through hole for the screw coupling opposite the locking slot. For mounting and centering procedure, see Repair Instructions for COMPUR QUICK-CHANGE MOUNTS, page 3 (types CN–1111–850).

㊹ When replacing mount 008 and drive ring 086, it should be ensured that the mount 020 has an internal diameter of 32.6 mm (with a DIN tolerance of H9 = + 0.062), otherwise the mount body must also be replaced or the internal diameter increased from 32.5 to 32.6.

㊺ If the speeds are marked on the shutter in green, exposure control ring 1110 10 444 539 80 and bayonet retaining ring 1110 10 444 730 84 should be used for replacement.

㊻ If the retaining plate 174 has three holes for 90° countersunk screws, the screw 1110 30 359 175 82 should be used. Screw 1110 30 359 175 81 has a cheese head.

㊽ The diaphragm coupling ring spring 1110 30 034 824 81 is not needed for special shutter CS–1110–444.

㊾ If the casing 101 has no centering depressing for the adjustment plate, adjustment plate 1110 10 034 818 80 should be used. With this adjustment plate, light value stem 1110 30 **034** 192 81 is required except for CS–1110–444 with light value stem 1110 30 **444** 192 81.

㊿ Consult repair instructions for shutter concerned.

(51) If the setting ring 148 has no drive pin, the part number concerned is 1110 10 226 148 **81.**

SPARE PARTS LIST

Supplement

(52) Part 1210 30 011 673 80 must be used, if the shutters still have a spring common to both the V-lock and shutter speed lever functions. On the other hand, separate springs are necessary, if the spring anchoring pin already has two spring anchoring grooves. Shutter speed lever spring 1210 30 011 673 81 should be placed in the lower groove and the V-lock spring 1210 30 011 432 80 in the upper groove.

(53) For X-M and MX-settings there are two different versions of the shift ring lock for types CN–1210–022/040/041/042 and CS–1210–701/702/703, etc.

a) If the shift ring lock is released by pressing the lever towards the center of the shutter, where replacement is necessary use part 1210 10 702 747 80 for the lever.

b) If the release is effected by forward axial thrust on the lever and if the shutter mount (part 745) does not have a metal strip around its circumference, use the lever 1210 10 702 747 81.

(54) For the earliest version of this shutter type, which can be recognized by the knurled diaphragm closing lever protruding from the shutter (see illustration CN–1210–022, plate 2, part 754), only spare parts No. 1210 30 702 254 **83** should be used when repair is necessary.

If the shutter have an angled diaphragm closing lever without knurling, use parts 1210 30 702 754 84, 1210 30 702 754 86 or 1210 30 702 754 87 as follows:

a) for shutters **without** metal strip on the circumference of the shutter mount (part 745)
1210 30 702 754 **84** if the diaphragm closing lever is provided with an angled lug supporting it on the sleeve (part 746).

1210 30 702 754 **86** if the support is provided by a pin in part 746 through a recess in the lever.

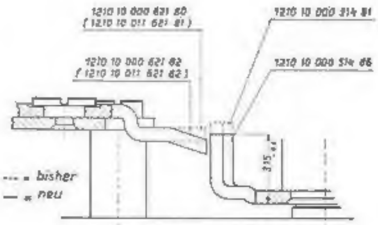
b) For shutters **with** metal strip on the circumference of the shutter mount (part 745) use the diaphragm closing lever 1210 30 702 754 **87.**

(55) Formerly, the shutter fixing screw 1204 30 000 115 81 was used as a stop instead of the fillister head screw 1210 30 703 743 80. In case of repair, both these screws should be ordered.

(56) There are 3 different types of flash terminals:

a) without a flange on the 3 mm slip-on diameter	part no.	**1110** 20 000 600 **85**
b) with a rectangular flange	" "	**1210** 20 702 600 **80**
c) with a triangular flange	" "	**1210** 20 702 600 **81**
appropriate rivets:		
to b) 1 piece	" "	1210 40 702 784 **80**
1 piece	" "	1210 40 702 785 **80**
to c) 2 pieces	" "	1210 40 702 784 **81**

(57) If the drive 514 is replaced, on the bridge the locking lever must be angled downwards in order to hold the drive dependably with the shutter cocked. If the locking lever on the bridge (part 621) has not the new shape, the bridge must be replaced by one with mounted new locking lever 1210 10 000 621 82 or 1210 10 011 621 82. The locking lever on the bridge is hardened and therefore cannot be bent subsequently.



(58) If the movement of coupling spring 166 in diaphragm coupling ring 590 is **not** limited by a milled recess, part 590 must be replaced.

(59) If the light value (follow-up) stem 192, the shutter mount 745 or the rangefinder control cam 775 is replaced, the position of the rangefinder control cam lug must be checked and, if necessary, readjusted. (See Instructions for Repairs, p. 2/S).

Vertical play of the light value stem: see Instructions for Repairs, p. 2/S.

When replacing the shutter mount 745 or rangefinder control cam 775, note that if the depth-of-field scale is engraved direct in the shutter mount, spare parts 1110 10 556 745 81 or 1110 30 556 775 82 must be used.

If the depth-of-field scale is on a screwed engraving strip, spare parts 1110 10 556 745 82 or 1110 30 556 775 83 must be used.

(60) This part is used in addition to screw on the bayonet retaining ring (4x).

(61) If a stop pin is riveted into the drive lug, use part 1110 10 556 552 80.

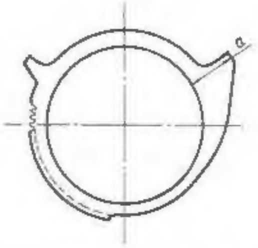
(62) Replacement parts must be adjusted (see Instructions for Repairs, page 2/S). If the old bayonet retaining ring has no centering collar for interchangeable lenses (35.8 mm diam.), the outer cover ring must also be replaced or have its internal diameter enlarged to 37.4 mm + 0.062 mm.

(63) Furthermore, when replacing part 730, the index ring 771 must also be replaced **unless** the knob of the MXV-lock (to right of engraved M) is offset.

If a pin is riveted in the lug of the cam ring (part 552), this pin must be removed.

(64) When installing new parts, check the focus setting of the lens with the camera maker's data and adjust, if necessary.

(65) Check distance **a** when replacing. If a part with a = 6.7 mm is to be replaced, use 1110 30 556 761 **80**, for a = 6.0 mm use 1110 30 556 761 **81**.



(66) This part is supplied in two thicknesses (0.05 and 0.2 mm) and serves to adjust the vertical play of the light value follow-up system (see Instructions for Repairs, p. 2/S).

(67) The direction of rotation of the diaphragm is opposite to that of the standard model.

(68) The coupling 1110 30 452 722 must be pressed on so that the distance from the upper side of the tensioning pinion to the lower side of the coupling is 14.3 — 0.1 mm.

(69) Use spacer ring 1111 30 851 088 82 if the four through holes for screws in the bayonet ring (part 001) lie half in one rotation step on the inside.

Use spacer ring 1111 30 851 088 83 or 82, if the above-mentioned holes are entirely within the area of the rotation step.

(70) When ordering 1112 30 004 174 80 - supporting plate - include three sliding pins 1112 30 004 788 80 per supporting plate in the order.

PARTS LIST

Supplement

Sheet 5

(71) In the early models of the shutters this screw 1110 30 359 739 80 serves as a stay between housing 101 and bayonet retaining ring 730.

In the modified model, these two parts are connected radially with screw 1110 30 034 740 80 (recognizable by screw head in the conical surface next to the knob for the lens lock).

(72) In type 1110–035 and the early model of type 1110–034, this screw 1110 30 035 545 80 (formerly 1110 30 034 545 80) serves as a stay between housing and bayonet retaining ring (parts 101 and 730). In the modified model 1110–34, these two parts are connected radially with the screw 1110 30 034 740 80. (Recognizable by the screw head in the conical surface next to the knob for the lens lock.) No change has been made in type 1110–035.

(73) In shutters with a radial screw connection between the housing (part 101) and bayonet retaining ring (part 730), the bayonet retaining ring 1110 10 **034** 730 91 or 1110 10 **672** 730 86 must be used. (Recognizable by the screw head in the conical surface next to the knob for the lens lock).

If the above mentioned new bayonet retaining ring is installed in shutters without the new screw connection, either the housing (part 101) must be replaced at the same time, or the screw hole (1.4 metric thread) must be tapped in the existing housing.

Caution! Avoid soiling with chips in all circumstances.

(74) In shutters with a radial screw connection between the housing (part 101) and bayonet retaining ring (part 730), the bayonet retaining ring 1110 10 359 730 91 must be used. (Recognizable by the screw head in the conical surface next to the knob for the lens lock.)

If the above mentioned new bayonet retaining ring is installed in shutters without the new screw connection, either a new housing 1110 10 359 101 80 must be installed in place of the old one or the screw hole (1.4 metric thread) must be tapped in the existing housing.

(75) Diaphragm coupling rings 590 and speed selector rings 539 are only supplied in matched pairs. Consequently, the part numbers given in the Parts Lists also include the corresponding speed selector ring 539.

(76) Diaphragm coupling rings 590 whose height on the side opposite the aperture scale is 14 mm should be assembled in conjunction with a low ball stop spring (part 045) and a high ball stop spring (part 046).

All other diaphragm coupling rings 590 should be installed with two high ball stop springs (part 046).

(77) In the model without a knob only oval-head countersunk screw 1210 30 660 588 80 should be used in place of these two parts.

(78) If the knob of the speed selector ring is screwed from **inside**, use:

speed selector ring knob and	1110 40 556 581 **80**
countersunk machine screw	1110 40 556 821 **80.**

If the knob of the speed selector ring is screwed from **outside**, use:

speed selector ring knob	1110 40 556 581 **81**
oval head screw	1110 40 556 821 **80**
and shim	1110 40 556 531 **80.**

(79) Where the drive 514, tensioning pinion 517 and tensioning idler gear 522 run in bushings (bushings riveted to base plate 201), the following parts must be used:

drive	1210 10 000 514 **86**	(**without** groove in upper face of drive bushing)
tensioning pinion	1210 10 000 517 **81**	
or tensioning pinion	1210 10 011 517 **80**	
tensioning idler gear	1210 10 011 522 **80.**	

If, however, the drive 514, tensioning pinion 517 an tensioning idler gear 522 run on shafts (shafts riveted to base plate 201), only the following parts must be used:

drive	1210 10 000 514 **87**	(**with** groove in upper face of drive bushing)
tensioning pinion	1210 10 000 517 **82**	
or tensioning pinion	1210 10 011 517 **81**	
tensioning idler gear	1210 30 011 522 **81.**	

(80) The stop 1110 10 452 299 80 is no longer supplied. Instead, the stop 1110 30 011 299 82 should be used.

If the stop 1110 10 452 299 80 (identified by riveted tensioning ring stop pin) is exchanged for the stop 1110 30 452 299 80 (**without** riveted tensioning ring stop pin), the tensioning ring 1110 10 452 528 **82** (short tensioning ring arm) must be exchanged for the tensioning ring 1110 10 452 528 **83** (long tensioning ring arm).

(81) If in its normal position the tensioning ring is in contact with the housing (101), the tensioning ring 1110 10 452 528 **83** must be used.

Should the tensioning ring in its normal position rest against the stop 1110 10 452 299 80, either tensioning ring 1110 10 452 528 **82** or tensioning ring 1110 10 452 528 **83** may be used.

The stop 1110 10 452 299 80 is distinguished from the normal stop by the riveted tensioning ring stop pin.

(82) For the following lenses, there are two different models with different focusing scales.

Lens	Focusing scale	Type No.
Xenar 2.8/50	∞ to 0.9 m ∞ to 0.6 m	CN–1111–858 CN–1111–883
Xenon 1.9/50	∞ to 0.9 m ∞ to 0.6 m	CN–1111–871 CN–1111–884

PARTS LIST

Supplement

Sheet 6

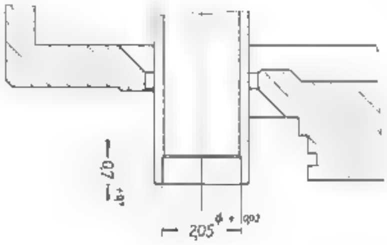
(86) The escapement lever is available in two different versions:
metal lever with riveted bushing = 1914 10 001 341 81
plastic lever = 1914 30 001 341 83

Shutters originally supplied with an escapement lever of metal must **not** be equipped with a plastic escapement lever! Nor must plastic levers be replaced by metal ones.

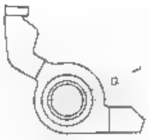
(87) Where the part 341 is made of metal (see ①), the spring 1914 30 001 344 80 must be used as a spare part.

(88) The release is available in two different versions
with through hole of 1.3 ∅, without step — 1912 10 001 508 80
with stepped bore of 1.3 ∅ / 2.2 ∅ — 1912 10 001 508 82.

(89) The drive is now provided with a plastic bushing for the shaft. If such a new drive is installed in a shutter not previously equipped with a plastic bushing, the bearing bushing riveted in the base plate and projecting at the rear of the shutter must be re-machined.



(90) The locking lever is available in 6 different selector steps which vary by the dimension "a".



for selection	
step	a
5	5.25
4	5.20
3	5.15
2	5.10
1	5.05
0	5.00

The correct step has been found when the locking lever engages the dog of the drive (part 514) at the same time or slightly later than the thrust pawl (part 514) the tang of the blade ring (part 202). The opening of the shutter blades can be avoided to a great extent if the tensioning process is interrupted prematurely.

(91) Two different versions of the release are available:

with through hole of 1.3 ∅, without step = 1914 10 102 508 80
with stepped bore of 1.3 ∅ / 2.2 ∅ = 1914 10 102 508 81.

(92) The drive is now provided with a plastic bushing for the shaft. If such a new drive is installed in a shutter not previously equipped with a plastic bushing, the bearing bushing riveted in the base plate and projecting at the rear of the shutter must be re-machined. (See drawing of item (89)).

(93) The cover 1914 10 102 560 81 is provided with a sparking contact for the light meter circuit. If a new cover is mounted on a shutter the original cover of which did not have a sparking contact, the speed slide 1914 30 102 539 — — must be replaced as well (install part 1914 30 102 539 82) if the sparking contact is to be connected to the light meter. (If necessary, consult the camera manufacturer's (Agfa) instructions for repairs).

(94) Where the cover plate does not have an opening for accomodating the speed shaft extended at the front, install part 1914 30 301 219 80.

(95) For mounting a new cover plate 1914 10 301 540 **85**, the speed shaft 1914 30 301 219 81 (with the journa of 2.6 ∅ on the gear side) must be in position in the shutter. Speed shafts without journals should be replaced.

(97) For repairs (in the case of damaged threads), this screw is available with M 1.4 thread (instead of M 1.2) under the number 1210 30 702 542 **60**.

(98) Instead of 1111 **40** 851 037 83, the part 1111 **10** 851 037 03 may be used if the rocker pin is removed.

PARTS LIST
Supplement

(99) The shutter "556" is made in two different versions.
1) CS–1110–556 = with X and M contacts
2) CS–1112–556 = only with X contact (without M).

The following parts should be used:

for CS–1110–556	for CS–1112–556
1110 10 556 101 81	1112 10 556 101 83
1110 10 556 148 82	1112 10 556 148 83
1110 10 020 201 84	1112 10 556 201 81
1110 10 556 771 83	1112 10 556 771 84
1110 10 000 400	1112 10 000 400 84

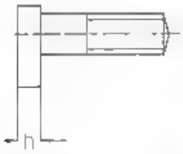
(100) Two different systems are in use for mounting the focusing ring (part 026) on the helical focusing nut (part 018):

Type 1: with 3 swing-in clamp screws secured by slotted nuts.

Type 2: with a clamp ring between the outer ring of the helical focusing system (part 073) and the helical focusing nut (part 018), which is secured by three fillister head screws.

The following parts should be ordered:

for type 1		for type 2	
3 x slotted nut	1210 30 702 023 80	1 x focusing ring	1210 10 702 026 84
1 x focusing ring	1210 10 702 026 84	3 x screw for focusing ring	1210 30 702 031 84
3 x clamp screw	1210 30 702 031 **83** if h = 0.9–0.5	1 x clamp ring	1210 40 702 049 80
	1210 30 702 031 **81** if h = 0.65–0.05		



If a type 1 helical focusing system (without attached clamp ring — part 049) becomes unserviceable, it must be replaced by a type 2 system (with attached clamp ring — 1210 10 702 073 87), and the following parts must be ordered in addition:

1 x focusing ring	1210 10 702 026 84
3 x screw for focusing ring	1210 30 702 031 84.

(101) If the M-detent lever (part 696) mounted on the base plate (part 201) is made of plastic, particular care must be taken to ensure that the blade ring (part 202) has a radius of $0.15^{+0.05}$ at the tip of the M-catch (= point of contact with M-detent lever).

If necessary, correct this point of the blade ring with the aid of an oil stone.

(102) There are two different systems for mounting the knurled sleeve (part 073) on the helical focusing tube (part 075).

Type 1: by means of a threaded ring
Type 2: by means of 8 fillister head cap screws.

The following parts should be ordered.

for type 1		for type 2
1 x knurled sleeve	1210 30 703 073 83	1 x knurled sleeve 1210 10 703 073 84
1 x threaded ring	1210 30 703 076 80	8 x screw for sleeve (short) 1210 30 702 055 81

If a new helical focusing tube 1210 10 703 075 84 is required, the following additional parts must be ordered if the knurled sleeve was previously mounted as indicated under "1":

1 x knurled sleeve	1210 10 703 073 84
8 x screw for sleeve (short)	1210 30 702 055 81

(13) There are two different systems for mounting the knurled sleeve (part 073) on the helical focusing tube (part 075):

Type 1: by means of a threaded ring
Type 2: by means of 8 fillister head cap screws

The following parts should be ordered.

for type 1		for type 2
1 x knurled sleeve	1210 30 704 073 83	1 x knurled sleeve 1210 10 704 073 84
1 x threaded ring	1210 30 703 076 80	8 x screw for sleeve (short) 1210 30 702 055 81

If a new helical focusing tube 1210 10 704 075 84 is required, the following additional parts must be ordered if the knurled sleeve was previously mounted as indicated under "1":

1 x knurled sleeve	1210 10 704 073 84
8 x screw for sleeve (short)	1210 30 702 055 81

If a bayonet ring is to be exchanged with which the four through holes for screws are on the inside partly within a rotation step, the automatic diaphragm ring (part 083) must be replaced at the same time.

This part is available in two different versions:

1111 40 863 003 80 for bayonet rings with which the four through holes for screws are on the inside partly within a rotation step;
1111 40 851 003 81 if the aforementioned holes are entirely within the area of the rotation step.

When making the replacement, remember that the new spacer ring 1111 30 851 033 82 can only be used together with the supporting ring (part 089) and the appropriate holders for the focusing ring 1111 30 851 030 81.

(07) Use the automatic diaphragm ring 1111 30 851 083 85 if the four through holes for screws in the bayonet ring (part 001) are on the inside partly within a rotation step.

Use the automatic diaphragm ring 1111 30 851 083 86 if the aforementioned holes are entirely within the area of the rotation step.

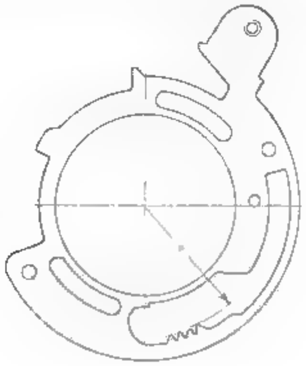
Instead of the tensioning ring knob 1210 10 051 509, the knob of the opening lever 1210 30 664 269 is used as tensioning ring knob.

PARTS LIST

Supplement

Sheet 8

(109) The tensioning ring is available in 9 different selector steps which vary in the dimension „a". Each ring has a characteristic number stamped on its front.



for selection		
step	α (±0,05)	characteristic number
0	17,35	without
1	17,40	1
2	17,45	2
3	17,50	3
4	17,55	4
5	17,60	5
6	17,65	6
7	17,70	7
8	17,75	8

The correct step has been found if the thrust pawl (514) engages the tang of the blade ring 202 shortly before the shutter is tripped by the tensioning ring 528.

(110) When replacing the drive 514 or the slip-on pinion 722, also consult item 9 of the repair instructions as well as note (109) of the Supplement.

(111) Instead of the leaf spring 595 and the pressure piece 596, the spring 114 for the click stop diaphragm is now used.

(112) Helical focusing drives are only supplied as a complete unit consisting of the following components:

for the following types or the special designs derived from them	helical focusing drive	consisting of
CS–1210–702	1210 10 702 073 88	1210 40 702 018 82 1210 40 702 049 82 1210 40 702 073 85 1210 40 702 074 81
CS–1210–703	1210 10 703 075 85 od. 93 (See Parts List)	1210 40 703 018 80/93 1210 40 703 074 82 1210 40 703 075 83
CS–1210–704	1210 40 704 075 84 od. 93 (See Parts List)	1210 40 704 018 80/93 1210 40 704 074 82 1210 40 704 075 83
CS–1210–705	1210 10 705 075 80	1210 40 705 018 80 1210 40 705 074 80 1210 40 705 075 80
CS–1210–707	1210 10 707 075 80 od. 81 (See Parts List)	1210 40 707 018 80/81 1210 40 707 074 80 1210 40 707 075 80
CS–1210–710	1210 10 710 075 81	1210 40 703 018 80 1210 40 710 074 80 1210 40 703 075 83
CS–1210–713	1210 10 713 073 80	1210 40 713 018 80 1210 40 702 049 82 1210 40 713 073 80 1210 40 713 074 80 1210 20 713 075 80

(113) The engraving of the speed selector ring 539 has recently been replaced by a screwed-on engraved strip. (The production of speed selector rings with engraving has been discontinued.) If the speed selector ring has to be exchanged, use the parts 539 and 541 plus two screws 1111 30 806 029 as scheduled in the parts lists of the shutters concerned.

(114) The short lug on the tensioning ring arm must be removed if the housing does not have the corresponding recess (see arrow, Table 2a).
When installing a new housing 1210 10 702 101 87 (with locking lever for blade opening ring 263) use the tensioning ring 1210 10 702 528 83.
Housings 101 are henceforth available only as part No. 1210 10 702 101 87 (with locking lever for blade opening ring 263). When exchanging an older housing for a new one, the tensioning ring 528 must likewise be replaced by a new one of type 1210 10 702 528 83. (See instructions for repairs 1210—022).

(115) The shutter CS—1210—710 is available in two different models.

Model 1: with a smallest f-stop of 32 (old type)
Model 2: with a smallest f-stop of 45

The following numbers are applicable

Model 1 smallest f-stop = 32	Model 2 smallest f-stop = 45
1210 10 703 037 80	1210 10 702 037 82
1210 10 703 075 84	1210 10 710 075 81
1210 30 710 541 80	1210 30 704 541 80
1210 10 710 590 80	1210 10 704 590 88

The parts of model 2 may also be used for conversion to a diaphragm range including f/45.

(117) When replacing the shift ring 148, care should be taken to determine whether the M-detent lever 696 riveted to the base plate 201 is made of metal or plastic.

The following numbers are applicable:

for metal M-detent levers 696	for plastic M-detent levers 696
1110 10 000 148 **81**	1110 10 000 148 **82**
1110 10 226 148 **82**	1110 10 226 148 **83**
1110 10 231 148 **81**	1110 10 231 148 **82**
1110 10 235 148 **82**	1100 10 235 148 **83**
1110 10 544 148 **80**	1110 10 544 148 **81**
1110 10 627 148 **80**	1110 10 627 148 **81**
1110 10 628 148 **80**	1110 10 628 148 **81**
1110 10 630 148 **81**	1110 10 630 148 **82**
1110 10 645 148 **82**	1110 10 645 148 **83**
1210 10 000 148 **82**	1210 10 000 148 **83**
1210 10 051 148 **80**	1210 10 051 148 **81**
1210 10 275 148 **84**	1210 10 275 148 **85**
1210 10 276 148 **80**	1210 10 276 148 **81**
1210 10 604 148 **80**	1210 10 604 148 **81**
1210 10 668 148 **80**	1210 10 668 148 **81**
1210 10 671 148 **80**	1210 10 671 148 **81**

(118) Both metal and plastic M-detent levers 696 are available. In the case of repairs, the same type of lever must be reinstalled

The following numbers are applicable:

for the metal lever	1210 40 000 696 80
for the plastic lever	1110 40 000 696 91

See also Note (8).

(119) The spring for the blade-opening lever 264 is now only available with two windings. This spring must only be mounted with the aid of the screw for blade-opening lever 1210 30 051 263 **81**.

(120) There are three different types of shift ring 148 and two different types of shift ring spring 151 which should be used as indicated in the following table:

Shutter mount with/without metal strip on circumference	M-detent lever 696 made of metal/plastic	Shift ring spring 151	Shift ring 148 to be used
without	metal	1210 30 702 151 80	1210 10 702 148 81
with	metal	1210 30 702 151 80	1210 10 702 148 82
with	plastic	1210 30 702 151 80	1210 10 702 148 83 or 84
with	plastic	1210 30 702 151 83	1210 10 702 148 84

Types of shift ring spring:
1210 30 702 151 80 = bright
1210 30 702 151 81 = copper-plated

(121) The following types of base plates 201 available:

Type	Bearing of parts 517 and 522	*Base plate with/without eccentric at self-timer	M-detent lever 696 made of	Number of base plate	used for shutter
A	bushes	without	metal	1210 10 702 201 81 1210 10 670 201 81	
B	bushes	with	metal	1210 10 702 201 88 1210 10 670 201 87	
C	spindles	with	metal	1210 10 702 201 **89** 1210 10 670 201 **88**	CS–1210–701/702 etc. CS–1210–670
D	spindles	with	plastic	1210 10 702 201 **91** 1210 10 670 201 **90**	CS–1210–701/702 etc. CS–1210–670

*for more details, see item 122

Type A (1210 10 702 201 01 and 1210 10 670 201 81) as well as type B (1210 10 702 201 88 and 1210 10 670 201 87) have been discontinued. When repairing shutters which correspond to these older types A and B, use type C (1210 10 702 201 89 and 1210 10 670 201 88).

In this case, the following parts must also be exchanged

Type before repairs	Install these parts	
A	Mounting tube	1210 10 702 204 82
	Speed lever	1210 30 000 669 82
	Drive	1210 10 000 514 87
	Tensioning pinion	1210 10 011 517 81
	Tensioning idler gear	1210 30 011 522 81
B	Drive	1210 10 000 514 87
	Tensioning pinion	1210 10 011 517 81
	Tensioning idler gear	1210 30 011 522 81

(122) When exchanging the mounting tube 204, note the following:

a) If the base plate has an eccentric (head with screw slot) beside the screw-on lug of the mounting tube 204, the mounting tube 1210 10 702 204 82 can be installed without difficulty.

b) If there is no eccentric, the following parts must also be exchanged:

Install:

Mounting tube	1210 10 702 204 82	
Base plate	1210 10 702 201 89	for CS–1210–701, 702, 703, etc.
Base plate	1210 10 670 201 88	for CS–1210–670
Speed lever	1210 30 000 669 82	
Drive	1210 10 000 514 87	
Tensioning pinion	1210 10 011 517 81	
Tensioning idler gear	1210 30 011 522 81	

(123) The shutter 231 is available in two different models

1) CS–1110–231 – with X and M contacts
2) CS–1112–231 - only with X contact

Use the following parts:

for CS–1110 231	for CS–1112–231
1110 10 231 101 82	1112 10 231 101 80
1110 10 231 148 81	1112 10 231 148 83
1110 10 000 201 91	1112 10 231 201 80
1110 10 000 202 92	1112 10 000 202 82
1110 10 000 400 88	1112 10 000 400 84
1110 30 000 619 84	1112 30 231 619 80
1110 30 000 641 83	1112 30 231 641 80

(124) The shutters CS–1210–275 and CS–1210–276 are available in two different models
Both shutters of type 1 have an aperture of 24.0.
Both shutters of type 2 have an aperture of 20.0.

The following numbers are applicable:

for 24 mm aperture	for 20 mm aperture
1210 10 000 106 86	1210 10 275 106 81
1210 10 000 116 84	1210 10 275 116 81
1210 10 000 208 83	1210 10 275 208 80
1210 10 000 225 80	1210 10 275 225 80
1210 10 000 267 81	1210 10 275 267 80
1210 10 000 268 81	1210 10 275 268 80

(125) If the tensioning ring spring 521 or the tensioning ring 528 have to be exchanged, first check where the original tensioning ring spring is hooked in.

The following numbers are applicable:

if hooked into the speed lever screw	1110 40 035 521 84 1110 10 035 528 84
if hooked into the delayed-action mechanism	1110 40 035 521 86 1110 10 035 528 85

(126) When exchanging the speed lever screw 671, note whether the tensioning ring spring 521 is hooked into the speed lever screw or the delayed-action mechanism.

The following numbers are applicable:

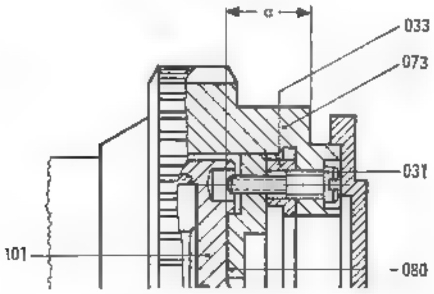
if hooked into the speed lever screw	1110 30 230 671 80
if hooked into the delayed-action mechanism	1110 30 000 671 82

(127) The spring for the V-detent lever 1110 30 011 432 81 and the speed lever spring 1110 30 011 673 83 can only be used if these two springs are arranged as shown on picture plate 1 No. CN–1110–035 (1969 edition).
However, if there is only one spring serving for both the V-detent and the speed lever (see illustration on picture plate CN–1112–010), the speed lever spring No. 1110 30 011 673 82 must be used.

(128) The external sleeve No. 1210 10 707 073 81 is only supplied with tripod bush flange in place

(129) If it is necessary to exchange the knob of the shift ring lock 751 or the spring 749, part 786 must be ordered as well.

(130)



When exchanging one of the three parts 033, 073 or 080, it is absolutely indispensable to restore the vertical distance "a". The spacer ring 033 is supplied slightly larger and must be turned down accordingly. For further details, see the instructions supplied by Messrs. Carl Zeiss.

(132) Should the focusing ring 026 have to be exchanged, it is necessary first to determine how it is mounted on the helical focusing nut 018. (See Note 100).
If the ring is mounted as in version 1, a new clamp ring 1210 40 702 049 **82** must also be installed. To do this however, the helical focusing mechanism must first be disassembled and reassembled as described in the Instructions for Repairs, page 9. Then mount the new focusing ring according to page 10 of the Instructions for Repairs

(133) In recent shutter models, the outer cover ring has a stay for the idler shaft of the adjusting plate 1112 10 359 818 (formerly 1110 10 034 818).

If repairs are made in this area, the stay should be installed as well. To do this, the following parts are needed:

	with type 1110 (or 1112) 359	with type 1110-358
Outer cover ring	1112 50 359 738 81 (*	1110 50 358 738 81 (*
Adjusting plate	1112 10 359 818 80	1112 10 359 818 80

(* This ring consists of the following parts which need **not** be ordered separately:

Outer cover ring	1112 10 359 738 81	1112 10 358 738 82
Diaphragm coupling ring	1110 40 035 590 82	1110 40 034 590 84
Flanged ring	1110 10 035 815 81	1110 10 034 815 82
Spring f. diaphr coupling ring	1110 30 034 824 82	1110 30 034 824 82
Staybolt	1112 30 359 830 81	1112 30 359 830 81

SPARE PARTS LIST

Supplement

Sheet 11

(134) In recent shutter models, the blade opening lever 262 is shorter and has a stamped knurl instead of the knurled knob 1210 30 051 269 80. The screw 1110 30 030 743 80 is no longer used

Only the new lever 1210 10 051 262 81 will be supplied as a spare part.

(135) The special-purpose shutter CS-1210-602 has been discontinued For repairs, use the speed selector ring 1210 30 051 539 81 (not engraved "LINHOF").
For the blade opening lever only the type 1210 10 051 262 **81** must be used (without a knob — with stamped knurl). If the entire shutter has to be replaced, use the type CN–1210–051 **c.**

(136) For all shutter types of the series 1110/1112 and 1210 several versions of escapements were manufactured. They can be distinguished by the following features:

Earlier version:

Plate aperture for detent pin (speed control pin) open on one side, opposite the wall of the housing

New version:

Detent-pin aperture in plate closed on all sides
For repairs, only escapements of the new version will be supplied.

*) **Exception:** 1112 10 005 300 80. This escapement is only supplied in the conventional design.

Note: When exchanging an earlier escapement for a new one, be sure to replace the cam ring (part 552) as well. Every **new escapement** with a fully closed aperture for the detent pin goes with a **new cam ring.** This is distinguished by an 0.8-mm hole between its central aperture and the 1/15 sec speed control step (= highest point of cam roughly in the middle of the speed cam).

For the part numbers of escapements and cam rings see the relevant Parts Lists. For orders and repairs please note the following **indices:**

Escapements

Earlier version: Available only until present stock is sold	**New version:** Exclusively for use with cam rings (part 552) having an index hole
1110 10 000 300 **81**	1110 10 000 300 **84**
*) 1112 10 005 300 **80**	
1210 10 000 300 **81**	1210 10 000 300 **84**
1210 10 011 300 **81**	1210 10 011 300 **84**
1210 10 681 300 **80**	1210 10 681 300 **82**

Cam rings

Earlier version (without index hole)	**New version** (with index hole)
1110 30 000 552 **85**	1110 30 000 552 **87**
1110 30 010 552 **84**	1110 30 010 552 **85**
1110 30 018 522 **83**	1110 30 018 552 **84**
1110 30 020 552 **84**	1110 30 020 552 **85**
1110 10 024 552 **81**	1110 10 024 552 **82**
1110 10 030 552 **84**	1110 10 030 552 **85**
1110 10 034 552 **89**	1110 10 034 552 **90**
1110 10 035 552 **81**	1110 10 035 552 **82**
*) 1112 30 004 552 **81**	
1110 30 139 552 **82**	1110 30 139 552 **83**
1110 30 230 552 **84**	1110 30 230 552 **85**
1112 30 455 552 **80**	1112 30 455 552 **81**
1110 30 556 552 **83**	1110 30 556 552 **84**
1112 30 558 552 **80**	1112 30 558 552 **81**
1210 30 000 552 **82**	1210 30 000 552 **84**
1210 30 702 552 **82**	1210 30 702 552 **83**
1210 30 660 552 **80**	1210 30 660 552 **81**
1210 30 604 552 **80**	
1210 10 604 552 **81**	1210 10 604 552 **82**
1210 30 275 552 **83**	1210 30 275 552 **84**
1210 30 671 552 **81**	1210 30 671 552 **82**
1210 30 681 552 **80**	1210 30 681 552 **81**

↑

This index is not always identical with the one given in the Parts Lists. However, this difference is of no importance for operation. — Earlier cam rings (without an index hole) will be supplied until the present stock is exhausted. — Whenever an escapement or a cam ring is found to be defective, it is advisable to install the new version.

*) **Exception:** This cam ring will be supplied in the conventional design for the future.

SPARE PARTS LIST

Supplement

Sheet 12

(137) The escapement 1210 10 011 300 may have either one of the two anchor plates 319, see picture plate 5 for CN–1110–000. The difference consists in the length of the lug engaging the cam ring. To avoid confusion, the longer lug has a notch in its front. In the case of repairs, only new escapements 1210 10 011 300 **85** with a long anchor-plate lug (with notch) should be used.

Note: If the defective escapement did not have a notch in its anchor plate, certain types of shutter require replacement of the following parts together with the installation of the new escapement 1210 10 011 300 **85**:

CS–1210–604	Speed selector ring	1210 10 604 539 **82**
CS–1210–670, CS–1210–701, 702, 703, etc.	Cover plate	1210 30 702 540 **82**
CS–1210–671 to 679	Cover plate	1210 30 702 540 **82**

See also Note (136)

(139) Two different types of intermediate diaphragm ring (037) have been used in production:

Type 1:

The rocker 040 is riveted to the shaft in the intermediate diaphragm ring.

Type 2:

The rocker 040 is loosely slipped onto the shaft in the intermediate diaphragm ring.

As a spare part, only type 2 (without rocker 040) is available. The rocker for the type 2 ring is available under the number 1210 10 702 040 82.

Intermediate diaphragm rings (037) of type 1 **cannot** be installed in shutters originally provided with a type 2 ring.

Table see overleaf:

Table of catalog numbers:

Type 1 (with riveted rocker 040)	**Type 2** (for loose rocker 1210 10 702 040 82)
1210 10 702 037 **82**	1210 10 702 037 **83**
1210 10 670 037 **80**	1210 10 670 037 **81**
1210 10 701 037 **80**	1210 10 701 037 **81**
1210 10 703 037 **81**	1210 10 703 037 **82**
1210 10 706 037 **80**	1210 10 706 037 **81**
1210 10 713 037 **80**	1210 10 713 037 **81**

(140) **Knob for shift-ring lock 1210 40 702 751**

This part is available in two different versions:

1. Stop lug 2 mm wide 1210 40 702 751 **01**
2. Stop lug 1 mm wide 1210 40 702 751 **02**

When the present stock of part No. 01 is exhausted, only part No. 02 will be supplied as a spare part which can be installed in the place of 01.

Caution: Do not install type 01 parts (with 2 mm lug) into more recent shutters instead of the 02 parts!

(141) **Cover blade 1210 30 702 180**

This part is available in two different versions:

1. Breite des äußeren Lappens 12 mm 1210 30 702 180 **00**
2. Breite des äußeren Lappens 10 mm 1210 30 702 180 **01**

When the present stock of part No. 00 is exhausted, only part No. 01 will be supplied as a spare part which can be installed in the place of 00.

Caution: Do not install type 00 parts (12 mm wide) instead of type 01 parts!

(142) **Flash terminal for CS-1307-608 and 606, 607**

Parts 1107 10 128 600 81 and 1106 30 128 612 81 included in the Parts List have been discontinued. Instead, you will receive the flash terminal 1107 10 000 600 85 that is secured to the base plate by means of screw 1206 30 000 612 84. The additional terminal 1307 10 606 600 80 is slipped onto the new terminal and screwed to the edge of the housing by means of screw 1402 40 000 283 81. If necessary, bore the tapped M1.4 hole of the additional terminal.

(143) Diaphragm blades 1210 10 000 105

Diaphragm blades are available without enamel finish (1210 10 000 105 86) and with enamel finish (1210 10 000 105 88). The enameled blades can be distinguished from the nonenameled blades by their mat black finish. Use exclusively enameled blades for shutters originally fitted with this type of blade.

Conversely, be sure to use non-enameled blades for shutters originally equipped with that type of blade.

(144) Housings 101 will henceforth be supplied only with index 88 = with enlarged diaphragm space for enameled diaphragm blades.
Housings with index 88 can be recognized by a tapered countersinking in the opening for pin 122 (see picture plate 1110 000 18) on their inside.
If a housing with non-enameled diaphragm blades has to be replaced, order 5 enameled diaphragm blades 105, index 88, together with housing 101, index 88.

(145) Diaphragm blades 1210 10 000 105
Diaphragm blades are available in a plain version (1210 10 678 105 80) and an enameled version (1210 10 671 105 88). The enameled blades can be recognized by their mat black finish.
Be sure to use exclusively enameled diaphragm blades in shutters originally supplied with enameled blades. On the other hand, plain blades must be used for shutters originally provided with plain blades.

(146) As an exception to Note 144, housings 1210 10 277 101 80 and 1210 10 278 101 80 will accept both enameled and plain diaphragm blades.
Diaphragm blades 1210 10 277 105 can henceforth be supplied only with enamel finish = index 88.
Contrary to Note 143, these diaphragm blades may be replaced by blades 277 105 without enamel finish.